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CONSUMER PRODUCT SAFETY COMMISSION
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Memorandum

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SUBJECT : Preliminary Analysis of Stroller Restraint System Data

This memo provides a preliminary analysis of incident, injury and death data¹ on stroller restraint systems² as reported in the U.S. Consumer Product Safety Commission's (CPSC) data files. The incident reports referred to in this document not only include those with injuries and deaths, but incidents in which there appeared to be the potential for injury. These data are anecdotal and not a statistical sample of known probability. However, these data do give an indication of the types of restraint-related incidents occurring with strollers and also represent a minimum number of incidents.

Incident Outcome³

During the time period of January 1, 1998 to March 27, 2001, there were 117 reports of incidents involving stroller restraint systems.⁴ Table 1 shows a breakdown of the incidents as to outcome in terms of injury.

¹ A search was conducted of the In-depth Investigation file (INDP), the Injury and Potential Injury Incident file (IPII), the Death Certificate file (DTHS) and the National Electronic Injury Surveillance System (NEISS) for January 1, 1998 through March 27, 2001.

² For the purposes of this memorandum, a restraint system is defined as any part of the stroller that plays a role in keeping a child confined in the seat.

³ The 117 reports, in some instances, cited multiple incidents. However, sometimes the caregiver reporting the problem did not specify the exact number of times a particular type of restraint event happened, just that it happened multiple times. Hence, the 117 incidents referred to should be thought of as reports although they are referred to as incidents throughout this document. Therefore, the 117 incident reports are truly referring to a minimum number of cases.

⁴ Excluded from this analysis were the NEISS investigations from May 1, 1999 to September 30, 1999 that were the basis of a June 2000 report titled *Injuries Associated with Strollers* by Robin L. Ingle, M.A. et al. Reference is made to that report's findings on stroller restraints in the section of this memorandum titled *June 2000 Stroller Report*.

Table 1: Reported Stroller Incident Outcome Involving Restraints 1/1/98 to 3/27/2001⁵

TOTAL	117
Deaths	1
Injuries	42
Incidents with No Injury	63
Unknown if Injured	11

Source: INDP, IPH, DTHS and NEISS
U.S. Consumer Product Safety Commission/EPHA

Deaths

There was one reported death related to a stroller restraint system. It occurred when a 6-month-old male was lying unrestrained⁶ on his back in the stroller, drinking juice. His 14-year-old uncle was caring for him at the time of the incident. The uncle left and came back to find the child face down against the seat with his feet hanging out through one of the leg holes of the stroller. The child's death was due to asphyxia.

Injuries

The average age of the 42 children who were injured in incidents involving stroller restraint systems was 12 months. The injuries were evenly split among males and females (21 each). Head and facial region injuries accounted for 79 percent of all stroller restraint system-related injuries.

The injury incidents ranged in diagnosis from bumps, bruises, abrasions, contusions, welts and lacerations to more serious diagnoses such as a skull fracture, an abdominal hernia, a closed head injury and a case of near-miss strangulation that resulted in unconsciousness due to lack of oxygen. The types of injuries specific to a particular hazard pattern are discussed in the section titled *Hazards*.

No Injury or Unknown if Injured

To illustrate the scope of the problems with stroller restraint systems as seen in CPSC's data files, non-injury incidents and incidents where an injury was not cited were included in the analysis. In many instances, these cases could be viewed as near misses with the potential for injury. For instance, a 4-month-old male secured by a 3-point restraint (waist and crotch straps)

⁵ A full description of all 117 reports of incidents with stroller restraint systems is provided in Appendix A, attached to this memorandum.

⁶ The scope of the restraint project includes cases where children were left unrestrained, to try to ascertain the circumstances and consequences of the types of incidents. In this case, the caretaker was a minor who left the child unattended while the child was unrestrained.

in a stroller that had no restraint bar leaned forward, pushing himself out of the restraint straps. His feet got tangled in the straps, but he was caught before hitting the ground.

In total, there were 74 incident reports that fell into these two categories of no injury or unknown if injured.

Hazards

In reviewing the data, a number of hazard patterns emerged among the 117 incident reports as they related to stroller restraint systems. Table 2 shows the breakdown of the incident reports among the hazard patterns.

Table 2: Stroller Restraint System Hazards by Number of Incident Reports 1/1/98 to 3/27/01

	Total	Deaths	Injuries	No Injury	Unknown if Injured
Total	117	1	42	63	11
Restraints Failed to Hold the Child	56	0	13	36	7
Restraints Unfastened	19	0	12	5	2
Child Slipped Down in Stroller	13	1	2	9	1
Restraint System Broke	10	0	4	5	1
Child Could Unbuckle Restraints	7	0	3	4	0
Straps Detached From the Stroller	6	0	3	3	0
Restraints Not Used	2	0	2	0	0
Entanglement	1	0	1	0	0
Other	3	0	2	1	0

Source: INDP, IPIL, DTHS and NEISS
U. S. Consumer Product Safety Commission/EPHA

The following is a detailed discussion of the major hazard patterns associated with the 117 reports of restraint incidents presented in Table 2.

Restraints failed to hold the child

Fifty-six children were involved in incidents where the restraint straps failed to hold the child in place in the stroller. The average age of these children was 11 months with the youngest child being 4 months old. Thirteen children were injured in this type of incident. Twelve of the injuries were the result of a fall from the stroller. One injury resulted from an 11-month-old girl catching her hand and finger tips in the right front wheel of the stroller when the waist straps loosened.

Eleven of the injuries were to the head and facial region (all the result of falls). The other two injuries were to a child's hand and fingertips (incident described above), and an abdominal injury discussed below. Overall, most of the injuries were bruises, bumps, abrasions or lacerations. However, this particular hazard resulted in one of the most unusual injuries associated with stroller restraints. A 10-month-old male, who was in the back seat of a double stroller, wiggled out of the seat belt, falling to the floor. Although he hit the back of his head, the injury he received was a lower abdominal hernia that the doctor said might have been caused by the child struggling to get out of the stroller or as a result of the fall.

The following were some common scenarios found in this data, where the restraint straps failed to hold the child in the stroller.

- ☐ Child turned or wiggled out of the restraints or simply stood up out of the restraints.
- ☐ Child leaned forward or sideways, falling, slipping or nearly falling out of the restraints. Some of the straps loosened when the child leaned and some did not.

In one incident, a 23-month-old male was in a reclining position in the stroller and got out of the restraint (a 2-point waist strap) by sliding backwards. This caused the stroller to tip over backwards, causing the child to slip out and hit his head on the floor.

These were all incidents where the child had been secured in the restraint straps. The child did not disengage the straps by unbuckling them nor did the buckle disengage by itself. There were a number of observations related to these incidents (either made by the consumer or stated in the report) concerning the restraint systems themselves; among them were:

1. The straps were positioned too low on the child's body. They fit at the top of child's thighs or at the lower hip area instead of at the waist, contributing to the problem.
2. Waist straps were attached at the sides of the stroller's seat rather than the back of the seat, allowing for more room at the sides for movement.
3. Straps either loosened easily or did not loosen, break or detach at all, but still did not hold the child in place. One consumer stated that the male portion of the clasp didn't have a locking mechanism to keep the strap from slipping.
4. Straps on a 5-point harness formed a U-shape at the waist that was wide enough for the child's body to wiggle through.

5. The waist belt was sewn to the bottom of the seat, which allows the child to get out of the belt easily. The belt should be attached to the back of the seat.
6. On a 5-point restraint there was no way to adjust it and the piece that comes across the chest moves up and down, allowing a child to get his or her arms out of the restraints.

According to some of the caregivers, the child's ability to get out of the restraints or their failure to hold the child in place on the stroller seat was not an isolated occurrence. One 11 month-old girl was able to wiggle out of the restraint system, push herself up and stand up on the seat as many as 6 to 7 times a day.

Restraints Unfastened

There were 19 reports of restraint straps that disengaged/unbuckled on a stroller. The average age of the children in these reports was 8 months old, with the youngest child being 5 months. Fifteen incidents involved a fall from the stroller, of which 12 resulted in injury.

All 12 of the injury incidents were the result of falls. Head and facial injuries were associated with 11 of the injury reports. Among the types of head and facial injuries incurred were bumps, lacerations, bruises, an abrasion, a contusion and a black eye. The remaining injury was bruised buttocks and legs.

The most common scenarios associated with the restraints disengaging were:

- ☐ The child lunged or leaned forward and the buckle came undone.
- ☐ The belt unlatched when the child moved/wiggled around in the stroller.
- ☐ The restraint straps released for no apparent reason without the child moving or wiggling.

There were some comments made in the reports concerning the restraints involved in the incidents, including:

1. Consumers thought that the child's stomach pressed against the release button or the child waved his/her hands around unintentionally hitting the buckle release.
2. Pressure would cause a correctly fastened buckle to release repeatedly.

Child Slipped Down in the Stroller

There were 13 incidents where a child slipped down in the stroller. The average age of the children involved was 8 months with the youngest child being 2 months old. This was the only hazard category where a death was reported. The death was previously described in this document under the section titled *Deaths*.

There were two injuries reported with these incidents. A few times, between ages 2 and 9 months of age, one child twisted around in the secured and snugly fitting 2-point waist restraint, rolled onto her stomach and slipped feet first through the leg opening of the stroller. One time she ended up with the restraint belt around her neck and one shoulder. The child was hurt, but the type of injury was not specified. In the second injury incident, a 7-month-old male was in a reclining position and the consumer loosened the 2-point waist strap, allowing the child to move

down in the stroller. The waist strap became wrapped around the child's neck, resulting in a welt on his neck.

Among the scenarios with this particular hazard were:

- ☐ Both legs went through one leg opening or the child slipped out the leg opening.
- ☐ Children slipped through between the restraint bar or feeding tray and seat. In one instance, the child was dragged under the stroller with his neck caught on the restraint bar.
- ☐ Children slipped down in the stroller getting caught by restraints under armpits/arms, around face, around neck, and around neck and one shoulder.

In at least two of the incidents, the child rolled over into a prone position. Eight of the incidents involved strollers that had 2-point restraints on them and in 7 of those incidents the children got caught by the restraint. In 3 incidents, the child was not restrained.

One case involved questionable instructions on the part of the manufacturer regarding the crotch strap. The child had been restrained by the 2-point waist strap in the stroller and slid down in the seat to the point where the belt was under her arms. Her legs went through one leg hole. The child was uninjured, but the consumer still contacted the manufacturer. The manufacturer's representative referred the consumer to the owner's manual, which said that the crotch strap could be removed from the restraint bar and used with the waist strap. When the consumer tried that the child squirmed, tilted to one side and the base of the seat where the crotch strap attached began to lift away from the stroller.

Restraint System Broke

There were 10 reports where the restraint system of the stroller broke. The average age of the children associated with these incidents was 12 months of age, the youngest child being 5 months. Four incidents of injury were reported with all of those resulting in head and facial injuries. The types of head injuries ranged from relatively minor with a bruise, bump and contusion to potentially serious with a closed head injury. All of the injuries were a result of a fall from the stroller.

Other consequences of the failure/breakage of stroller restraints included one child who had one side of her body partially slide down through a leg hole and another child who tried to stand up.

The types of breakage or failure related to the incidents were as follows:

- ☐ The t-strap or belt cracked or broke.
- ☐ The crotch strap became unstitched (unknown if it detached from stroller).
- ☐ The locking mechanism/buckle(s) detached from the strap.
- ☐ Part of the buckle broke or cracked.

All of the incidents involved failure or breakage of the straps or buckles. In several instances, the consumer mentioned that the failure occurred when pressure was applied from the weight of the child himself or the child leaned forward in the restraints.

Child Could Unbuckle Restraints

There were 7 reports of children being able to unbuckle the restraints of the stroller. The average age of these children was 21 months with the youngest child being 12 months of age. All three of the injuries sustained in this type of incident were to the head and facial area. The three injuries were a skull fracture, a bump to the forehead and multiple facial injuries (cut lip, scraped nose and cheek, and a large bump to the forehead). All of the injuries were the result of falls from the stroller.

Among the scenarios associated with this hazard were:

- ☐ Child got out of the stroller seat.
- ☐ Child leaned forward and almost fell out.
- ☐ Child stood up and fell out.
- ☐ Child fell headfirst out of stroller.

The types of buckles involved in these cases were unknown except for a partial description of one buckle as a push button release.

Restraint Straps Detached from the Stroller

There were 6 reports of restraint straps detaching from the stroller. The children associated with these incidents were on average 10 months of age with the youngest child being 6 months old. Three of the incidents resulted in injury and two of those injuries were due to falls from the strollers (a bruised face and head, and a cut to the chin and bleeding mouth). The third injury incident was the result of the crotch strap of a 5-point system becoming unstitched, allowing the child to slip down in the stroller to the point where the shoulder harness keeper and waist strap caught her at the neck. The child received a red mark on her neck as a result.

In the non-injury incidents, the children tried to climb out or stand up and one incident did not report any action on the part of the child.

The types of scenarios that occurred in which restraints detached from the stroller were as follows:

- ☐ The crotch strap detached from the clip, which held it to the bottom of the stroller's seat (a recurring problem in one case).
- ☐ The clip that attached the crotch strap to the stroller separated from it by supposedly slipping through the slot that holds it to the stroller.
- ☐ The crotch strap became unstitched or unscrewed from the stroller.
- ☐ The restraint system detached from the stroller at the back where it appeared to have been glued or stitched

All of these incidents involved 3-point restraint (waist and crotch) systems with the exception of one, which was a 5-point (waist, crotch and shoulder) system.

Restraints Not Used

There were 2 reports where the sole contributing factor in the incident was that the restraint straps were not used. The children involved in these incidents were 18 and 3 months of age. Both incidents resulted in facial injuries (a lip abrasion and a contused nose) from a fall. In one case the child fell when a sibling was pushing the stroller and in the other incident the child fell when the stroller wheels caught in a crack.

Entanglement

There was one case of a 10-month-old male who became entangled in the restraints of his all-terrain stroller. The type of restraint was not specified, however the child was able to stand up and turn around while secured in the restraint system. The result was that the child became entangled in the shoulder straps. The straps were around his arms and across his neck, causing red marks to his arms and chest. The straps had to be cut off to free the child. It appeared that the shoulder straps were too long even on the tightest setting, according to the consumer.

Other

The remaining 3 incidents were categorized as "other". One involved a 6-week-old male who fell out of a stroller that had a zippered pouch seat (like a sleeping bag) instead of a restraint strap and/or bar system. He sustained a black eye. A second report involved a consumer checking the restraints after placing her child in the stroller. The consumer pulled on the waist strap and it released even though she was positive she had locked the buckle "tongues" in to the buckle. Nothing happened to this child. (This was unlike the previous cases where the restraints unfastened in that the restraint unfastened during a test of the buckle.) In the last case, the child fell forward while restrained and the shoulder straps came up and caught her around the neck strangling her. She was found unconscious, taken to the emergency room and released from the hospital the next day.

Jogging Strollers

Throughout this memorandum, strollers have been discussed in general, regardless of type. Among the data there have been incidents with many types of strollers, including jogging strollers which have vastly different designs from other types of strollers. There can be three wheels instead of four, seat construction is not as rigid and they are pushed at greater speeds than traditional-type strollers. Where photos were available, staff noted there were no restraint bars on these strollers.

One unique restraint feature noted on several of the jogging strollers⁷ was the presence of a 3-point restraint that consisted of shoulder and crotch straps. In one incident, a child secured in this type of strap configuration slipped down in the jogging stroller's seat to the point where the straps were rubbing the sides of her face.

⁷ This type of restraint system was seen in only one other reported type of stroller (a multi-occupant 6 seat stroller).

At this point in time, there is not enough data associated with jogging strollers to identify any prevalent restraint-related hazard patterns.

Restraint Characteristics

Among the types of strollers cited in these 117 reports were umbrella, jogging/all-terrain, combination, and multi-occupant (including tandem, double, and 6-seater) strollers.

Only 15 of the 117 reports identified a restraint bar as being present on the stroller and of those 8 had a crotch strap on the restraint bar. In one case, a stroller had a feeding tray (without a crotch bar or strap). Six of the strollers with restraint bars had 2-point waist restraints.

Of the restraint strap configurations reported there were 47 3-point waist and crotch systems; 19 2-point waist belts; 5 5-point shoulder, waist and crotch systems; and 3 3-point shoulder and crotch systems. There was only one incident reported where the stroller had no restraints (the zippered pouch seat previously mentioned under *Other* in the hazards section of this document).

June 2000 Stroller Report

In early 1999, CPSC staff noted a growing number of consumer complaints associated with strollers. To learn more about stroller-related injuries a special study was conducted (through NEISS) from May 1, 1999 through September 30, 1999. The results of that study included a section on the involvement of restraint systems on strollers. Three hazard patterns were identified in the data:

1. The child defeated the restraint and fell from the stroller.
2. The child slipped through the restraint and out of the stroller.
3. The restraint came loose and the child fell out of the stroller.

In the cases where the restraint system was determined to have a role in the incident there were slightly more than 1,000 estimated injuries treated in hospital emergency rooms nationwide.

For the time period of this study, an estimated 5,331 injuries occurred where a restraint system was present on the stroller. Among the cases reporting that a restraint system was present at the time of the injury incident, 59 percent (3,152) reported that the system was in use and 39 percent (2,070) that the system was not in use.⁸ However, the report states that restraint use was not necessarily relevant with respect to the injuries in all cases.

⁸ The report stated that in this study, the use of restraint systems by the consumers may be overreported due to the fact that respondents may have tended to respond in a manner that is socially acceptable in terms of restraint use.

Comments

The most prevalent hazard scenario reported with stroller restraints was that the restraints failed to hold the child. That scenario accounted for almost half of the 117 incidents (56). The children in these cases appear to be wiggling out of the restraints or leaning forward or sideways in the restraints, often slipping or falling out of the stroller. As with high chairs, this may be a complex issue to address depending on such issues as type of restraint, position of the seat, depth of the seat and where the restraints are attached to the stroller.

The second most reported issue was restraints unfastening. This often happened when the child leaned forward and/or applied pressure to the straps. This suggests further investigation of the forces that a buckle can withstand and whether or not the buckle was actually secured/locked.

Two point waist straps and 3-point shoulder and crotch straps seem to present problems with children slipping down in the stroller. The children are often stopped by the straps as they slip down, but are found in a hazardous position against the straps themselves. Two-point restraint straps alone present a potential danger for a child slipping down in the stroller, especially when there is no restraint bar present. Finally, strollers don't always have a restraint bar and not all restraint bars have crotch straps. These may be areas for further study.

Jogging strollers seem to be a product to watch in terms of the overall design of the product, especially with regard to how and in what position the seat holds the child and how the restraints are configured. Although, these strollers may not command a great share of the stroller market today, continued monitoring of the incident data associated with these products may be warranted since they are used and constructed differently than other strollers.

Appendix A

Stroller Restraints 1/1/1998 to 3/27/2001

HAZARD CODING:

Child could unbuckle restraints=U

Straps detached from the stroller=D

Child slipped down in the stroller=S

Restraints failed to hold the child=R

Restraint system broke=B

Restraints unfastened=RD

Restraints not used=RN

Entanglement=E

Other=O

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
1 H0120272A	Unknown, but stroller was purchased in 1998	8.5 MO M	Barberton, OH	Unknown type of restraints with a feeding tray with no crotch strap/bar T-strap (3-point?)	Restraints not used and child slid down S	Child was not secured in the stroller and slid down between the seat and feeding tray. His backside was hanging off the edge of the seat. No injury. Consumer feels the tray should have been T-shaped.
2 10060229	Unknown, but stroller was purchased in 1998	Unknown	Mechanicsburg, PA	Strap cracked	B	Consumer has had the stroller for 2 years and under normal use the t-strap has cracked, making the restraint system unsafe.
3 H9940082A	00/00/1998	12 MO M	Allentown, PA	3-point (waist and crotch) with no restraint bar	Wiggled out of restraint. R	Child was secured in the stroller when consumer noticed he could wiggle out of the strap by moving around. He then stood up. No injury.
4 H9910154A	01/13/1998	10 MO M	Lake Worth, FL	3-point (waist and crotch)	Climbs out of restraints and stands R	When consumer secures child in the stroller, he turns his body enabling him to stand up and climb out of the restraints. He has done this several times. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
5 6 H9850195A	04/00/1998 2 incidents	9 MO F	Philadelphia, PA	3-point (waist and crotch)	Restraints disengaged RD	Child was secured in stroller (not moving) when the straps abruptly disengaged. The child remained seated and there was no injury. The same thing happened again, but the consumer was pushing the stroller this time and the child fell headfirst onto pavement. She received a bump to her forehead.
7 H9840092A	04/01/1998	7 MO F	Dorchester, MA	3-point (waist and crotch)	Slipped out of the stroller R	Child was in the stroller secured, leaned over the front of the straps, and slipped out, landing on the floor. Child bruised her forehead. Consumer feels the straps are positioned too low.
8 980514CCC1401 H9850007A	04/29/1998	23 MO M	Crystal River, FL	2-point (waist) & restraint bar with attached crotch strap	Wiggled out of restraint. R	Stroller was in a reclining position and child got out of restraint by sliding backwards. This caused the stroller to tip over backwards and he fell out the back of the stroller, hitting his head on the floor. Bump to forehead.
9 980513CBB6793 H9850015A	04/29/1998	9 MO F	Fremont, CA	3-point (waist and crotch)	Buckle disengaged RD	Child was secured in stroller and mother bumped a curb that lunged the child forward. Child fell forward out of the stroller as the buckle released. She suffered facial abrasions, a cut lip and a bruised cheek.
10 980518CCC0411 H9850123A	05/01/1998	10 MO M	Inverness, FL	2-point (waist) with no restraint bar & side release buckle	Buckle disengaged RD	Child was strapped into the stroller and leaned forward. The buckle of the seat strap came undone and the child fell out of the stroller, hitting his forehead. Bump on forehead.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
11 H9850112A	05/11/1998	16 MO F	German town, MD	3-point (waist and crotch)	Restraints did not hold child R	Child was secured in the stroller and leaned sideways, falling headfirst onto the floor. She received bruises to her nose and forehead. The straps did not detach, break or loosen during the incident. Consumer feels it occurred because the waist straps are attached to the sides of the stroller's seat rather than the back. Consumer feels this design allows more room on the sides.
12 H9850133A 980519CCCC5579 (Terminated ID)	05/14/1998	6 WK M	Muncie, IN	No restraints	No restraints O	Child was placed in zippered pouch seat in a reclining position. The stroller was lifted and child fell out. There were no seat belts or any way of restraining the child to the seat. Seat is made of padded material the zips closed like a sleeping bag. Child suffered a black eye.
13 19860025A 14	06/01/1998 2 incidents	8 MO F	Cocoa, FL	5-point (waist, crotch and shoulder) with no restraint bar	Restraints failed to hold child in seat R	The 5-point harness does not hold the child in the stroller. There were two instances where she leaned and fell out of the stroller. In one instance, she banged her head and in another, dangled from the stroller. Unknown if injured.
15 H98C0038A 16	06/09/1998 & 11/00/1998 2 incidents	18 MO M	Middletown, CT	Unknown	Unbuckled restraints U	Child was secured in and unbuckled the locking mechanism. Manufacturer sent a replacement with an identical locking mechanism and the child did it again and got out of the seat. No injury.
17 H9870058A	06/21/1998	12 MO F	Joliet, IL	3-point (waist and crotch) and no restraint bar	Unbuckled one side of the restraint U	Child was secured in the stroller and unhooked one of waist straps from the crotch strap locking mechanism. She bent forward, started to fall out, but was caught. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
18 H9860232A	06/29/1998	33 MO F	North Brunswick, NJ	2-point (waist)	Stood up and fell out R	The child was secured by the waist strap , stood up in the stroller and fell forward out of it. The waist strap was pulled close against the child's waist. She received a laceration to her forehead which was stitched in the ER.
19 H9880048A	07/00/1998	9 MO F	Benton, AR	2-point (waist)	Wiggled out of restraint. R	Stroller's waist strap fits at the top of the child's thighs instead of at her waist. She was secured in the stroller and wiggled out by moving her body backward in the seat. No injury.
20 19890111A 21	07/001998 & 08/00/1998 2 incidents	10 MO M	Tacoma, WA	3-point (waist and crotch) with two center release buckles	Restraints unlatch RD	Child has fallen out of the stroller twice (on two separate days), landing on his head causing bumps and bruises. The seat belt loosens and unlatches when the child moves around and consumer thinks child may have hit the button release in waving his arms around.
22 H9870054A	07/04/1998	7 MO F	Marlton, NJ	3-point (waist and crotch)	Restraints failed to hold child R	The child was secured in her stroller and leaned forward to touch her toes, slipping forward out of the stroller. Mother caught her. No injury. The straps didn't detach or loosen. Consumer thinks they didn't hold the child because the waist strap fits at the lower hip area instead of the waist.
23 H9870287A	07/15/1998	13 MO F	Loveland, OH	2-point (waist)	Slipped down S	Child was secured in her stroller, slouched down and put both legs into one opening. She then rolled onto her stomach and slipped feet first through the leg opening where she was caught with the seat belt under her armpits. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
24 H9910179	Purchased 8/1/1998	2-9 MO F	San Jose, CA	2-point (waist)	Slipped down S	A few times the child has twisted around in the secured (snug) belt and slipped out the leg opening. Child had belt around one shoulder and her neck. She apparently was hurt (unspecified). Child was secured in the stroller when the restraint straps disengaged and the child slipped out landing on the sidewalk. She received bruises to her buttocks and legs.
25 H9910187A	08/00/1998	10 MO F	Lynn, MA	3-point (waist and crotch)	Restraints disengaged RD	
26 H9990227A	08/00/1998	8 MO F	Riverdale, NY	Unknown type of restraints and no restraint bar	Buckle unlatches RD	The hard plastic waist restraint buckle doesn't stay latched and the strap loosens by itself, if the child leans in the stroller. No injury.
27 H98A0197A 28 29	09/13/1998 to 10/23/1998 3 incidents	13 MO M	Winter Springs, FL	3-point (waist and crotch) with no restraint bar	Restraints failed to hold child R	On three occasions, the child was secured in the stroller and leaned forward almost slipping out headfirst. The child was caught each time and no injury. The t-strap did not loosen or detach.
30 981028CC0054 X98A0258	09/15/1998	7 MO F	Tuckerton, NJ	3-point (waist and crotch) with no restraint bar	Waist strap came undone when tugged on O	Child was placed in the stroller with the straps in place. Mother checked the restraints by pulling on the waist strap and it came undone. Was positive she had locked the buckle "tongues" into the buckle. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
31 H98B0202A	11/05/1998	14 MO F	Summit, NJ	T-strap (3-point?) with restraint bar	Slipped down S	Child was secured in the stroller and mother released the restraint mechanism. Child straightened her body and slipped through the 6 inch space between the restraint bar and seat. No injury. In the first incident, the child leaned forward and the right side waist strap disconnected, but left side of her body stayed in the stroller. After this the consumer noticed the child was able to use her thumb and forefinger to depress the plastic snap connector so it would come undone. In the second incident, the child leaned forward while secured in the stroller and the right side of the waist strap connector came undone. The child fell with her left foot staying in the stroller. She struck the sidewalk and sustained a minor contusion to her forehead.
32 990317C0352 33 19930063A	12/00/1998 & 01/00/1999 2 incidents	7-8 MO F	Naples, FL	3-point (waist and crotch) with no restraint bar & two center release latches	Restraint's latch unfastened RD	
34 H0040127A	00/00/1999	15 MO M	Rockville, MD	3-point (waist and crotch)	Crotch strap detached D	Child was secured in stroller and tried to climb out. Consumer noticed the crotch strap had detached from the clip which is attached to the bottom of the stroller's seat. This happened on at least 6 different occasions. No injury.
35 19990013	00/00/1999	7 MO M	Ashburn, VA	Unknown	Restraints loosen R	Child has leaned slightly forward almost falling out of the stroller on many occasions. The straps loosen easily. Consumer feels there has been the potential for injury.

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36 H0020118A	01/00/1999	7 MO F	Newbury Park, CA	3-point (waist and crotch)	Restraints failed to hold child in seat R	Secured child leaned forward in stroller and slipped headfirst to the floor. No injury. The restraint straps did not loosen, detach or break.
37 H9910038A	01/04/1999	5 MO F	Westmont, NJ	T-strap (3-point?)	Restraints were undone RD	Child was secured in stroller and then the straps were inexplicably undone. The child was dangling face down by her foot. No injury.
38 H9920345A	02/17/1999	5.5 MO M	Cheverly, MD	3-point (shoulder and crotch)	Restraint disengaged RD	Child was secured by harness that clips between the legs. The clip came loose and child's arm came out of one of the shoulder straps. The child fell sideways out of the stroller onto floor, bruising the right side of his head.
39 990601HCC3345 No Sample	02/25/1999	6 MO M	Glendale, AZ	Information unknown on straps, but stroller has restraint bar with crotch strap	Unrestrained & submarined down leg hole S	Child was lying on his back in stroller drinking juice, but unrestrained by a strap/seat belt. Caregiver left and came back to find child face down against the seat with his feet hanging out through one of the leg holes. Death due to asphyxiation.
40 X9951715	02/27/1999	16 MO F	Benicia, CA	Unknown	Restraints loosen R	Child fell out of the stroller onto her head with no injury. The lap belt was loose, although it had been tight when the child was put in the stroller. The child simply leaned against the belt and it loosened. The male portion of the clasp doesn't have a locking mechanism to keep the strap from slipping.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
41 H9940132A	03/00/1999	11 MO F	Mobile, AL	2-point (waist)	Able to stand up in stroller R	When child is secured in the stroller she is able to stand up and free herself. The waist belt did not disengage or break. The waist belt fits below the child's waist. No injury.
42 H9950087A	03/00/1999	10 MO F	Odenion, MD	Unknown type of restraints and no restraint bar	Almost slips out R	Child is able to lean forward and almost slip out of the restraint straps and fall. No injury.
43 990325CEP9008 NEISS	03/19/1999	3 YR M	Walker, LA	Unknown	Unbuckled restraints U	Child was buckled into his stroller when he unbuckled himself, stood up and fell out of the stroller, hitting his head on the floor. He was admitted to the hospital with a linear fracture to the mid-line of his skull.
44 H9930311A	03/21/1999	11 MO F	Westbury, NY	3-point (waist and crotch)	Fell out of restraints R	Child was secured in stroller's restraints and leaned forward, falling out of the stroller. Consumer caught her. No injury.
45 990401CWE4264 F9944185A	03/21/1999	9 MO F	Denver, CO	5-point (waist, crotch and shoulder) with no restraint bar	Crotch strap became unsewn D	Child secured by restraints in a jogging stroller and the crotch strap became unsewn, allowing the child to slip down in the stroller. She was caught by the neck on the shoulder harness "keeper" and the waist strap. Had a red mark on her neck as a result and made choking sounds when it happened.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
46 H9960050A	04/00/1999 to 05/00/1999	4 MO M	Passaic, NJ	3-point (waist and crotch) with no restraint bar	Able to push self out of restraints R	The child was secured in the stroller and leaned forward, pushing himself out of the restraint straps. His feet got tangled in the straps, but he was caught before hitting the ground. The straps did not loosen and they were not broken. In May, the same thing happened again. The consumer feels the stroller's waist strap buckles too low on the child's waist, making it easy for the child to climb or slip out. No injury.
47 H9990262A	04/00/1999	10 MO F	Marlton, NJ	3-point (waist and crotch)	Straps loosen R	Child is able to move around in stroller and loosen the secured restraint straps from around her waist. On several occasions she has stood up. This situation has been ongoing. The consumer feels the straps are defective. No injury.
48 H9940085A	04/06/1999	10 MO M	Century, FL	2-point (waist) with no restraint bar	Restraint did not hold child in seat R	Child was secured in stroller, leaned forward and entire body slipped through the waist strap. Consumer found son hanging facedown with his foot entangled in the fastened waist strap. No injury.
49 H9940155A	04/07/1999	12 MO F	Livermore, CA	3-point (waist and crotch) with no restraint bar	Restraint did not hold child in seat R	Child was secured in stroller, leaned forward and fell headfirst on floor. She received a bruise on her forehead.
50 H9940340A	04/19/1999	10 MO F	Scottsdale, AZ	3-point (waist and crotch)	Restraints failed to hold child R	Child was secured in the jogging stroller, dropped a toy and in an attempt to get it, nearly slipped out of the restraint straps. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
51 990511CNE5162	04/23/1999	12 MO M	Hillsborough, NJ	Seat belt, not specified and no restraint bar	Locking mechanism on restraints broke B	Child was put in stroller with restraints secured and adjusted. The restraint systems clip/locking mechanism came off and child fell out to sidewalk. Consumer said the locking mechanism apparently broke with her son's weight (28 pound child). He sustained a head contusion in the fall.
52 H9960111A	05/00/1999	11 MO F	Mequon, WI	2-point (waist)	Wiggled out of restraint. R	Child was in the back seat of a double stroller which only had a waist strap. (Front seat has waist and crotch.) Child fell headfirst onto floor, bruising her right cheek. Consumer thinks child wiggled out of the waist strap. The strap didn't loosen, come undone or break during the incident.
53 000110HCC0261 54 H99C0347A No Sample	05/00/1999 2 incidents	20 MO F	Brookline, NH	3-point (waist and crotch) with no restraint bar	Waist strap loosened R	The child was in a stroller, she leaned forward and the waist straps loosened, but the buckle stayed fastened. She caught the top of her right hand and fingertips in the right front wheel, causing abrasions. On an earlier occasion, she leaned forward and was able to touch the floor with her hands, but wasn't injured.
55 990518CNE5167 H9950043A	05/05/1999	11 MO F	Bridgewater, NJ	3-point (waist and crotch)	Strap and buckle separated B	Placed child in the stroller and fastened and adjusted the restraint straps. Child leaned forward and the seam on the crotch strap that attaches the buckle detached, causing the child to fall forward. The child fell out of the stroller and landed headfirst. She received a laceration and a bruise on her forehead.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
56 H9950075A	05/06/1999	9 MO F	Philadelphia, PA	2-point (waist) with no restraint bar	Restraints failed to hold child R	Child was secured in the stroller, leaned forward and was about to fall out when her mother caught her. Consumer feels the waist strap is inadequate and there is no restraint bar. No injury.
57 19950101	05/18/1999	9 MO M	Amarillo, TX	Unknown	Restraints fail to hold child back R	The child leaned forward to grab his foot and came close to falling out of the stroller. The safety strap does not hold the child back. No injury reported.
58 H9950198A	05/20/1999	7.5 MO M	Englishtown, NJ	3-point (waist and crotch)	Restraints failed to hold child R	Child was secured in jogging stroller, leaned forward and slipped headfirst out of the stroller. Received a bump to his head.
59 H9960056A	06/04/1999	6 MO F	Minneapolis, MN	3-point (waist and crotch) with no restraint bar	Restraints failed to hold child R	Child was secured in the stroller, attempted to lean forward to grab her toes and nearly slipped out of the stroller headfirst. The straps did not loosen and were not broken. Consumer feels the safety straps should be closer to the child's waist instead of the upper thighs. No injury.
60 H9960306A	06/26/1999	15 MO F	Chester, MD	3-point (waist and crotch) with no restraint bar	Unbuckled restraints U	Child was secured in the stroller and unbuckled the waist and crotch straps. She fell headfirst out of the stroller, receiving a bump to her forehead.
61 H9960320A	06/29/1999	9 MO F	Indianapolis, IN	2-point (waist)	Waist strap separated from buckle B	Child was secured in stroller, partially slipped through one of the two leg openings and one leg and one side of her buttocks were caught in the opening. The stitching on the left side of the waist strap had come undone from the buckle. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
62 990720CC0596 H9970114A	07/10/1999	11 MO F	Washington, DC	3-point (waist and crotch) with no restraint bar & two center release latches	Restraints unbuckled RD	Child was secured in the stroller and leaned forward, causing the restraints to unbuckle. Child fell headfirst to pavement, but was not injured.
63 19970036	07/11/1999	6 MO M	Yorba Linda, CA	3-point (waist and crotch)	Leaned forward and almost fell R	Child leaned forward and almost fell out of the stroller. The seat belt was adjusted normally. It was readjusted and the same thing happened. Consumer feels the seat belt doesn't hold her son very well and the center strap is not sturdy. Also, if the stroller leans forward at all, the child slips. No injury reported.
64 000824HAA3393 H9980042A Sample # 00-860-6189	07/12/1999	11 MO F	Pleasanton, CA	3-point (waist and crotch) with restraint bar	Wiggled out of restraint. R	Child was able to wiggle out of restraint system numerous times, regardless of how snug the straps were pulled. The first time the child fell out. She hit her head on the floor and received a bruise. Later, child was able to wiggle out of the restraint system, push herself up, and stand up on the seat. This event repeated itself sometimes as much as 6 to 7 times a day. Mother found if the child wiggled enough she could loosen the restraint system.
65 19980124	07/12/1999	10.5 MO M	Chicago, IL	Unknown	Entanglement in restraints E	While secured in the stroller, child was able to stand up and turn around, becoming entangled in the shoulder straps. The straps were around his arms and across his neck. Straps had to be cut off to free the child. Received red marks to arms and chest. The shoulder straps were too long even on the tightest setting, according to the consumer.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
66 H0030247A	08/00/1999	6 MO M	Damascus, MD	3-point (waist and crotch)	Crotch strap detached D	Child was secured in the stroller and stood up. Consumer found that the crotch strap had detached from the stroller seat. It had been held to seat by a screw. No injury.
67 H9980201A	08/17/1999	6 MO M	Ocean, NJ	3-point (waist and crotch) with no restraint bar	Restraint did not hold child in seat R	Child was in a reclining position in the stroller and restrained. He sat up and flipped out of the stroller onto the floor. The stroller's safety belt didn't break or appear to be loose. Child received a laceration above his eye, which had to be sutured.
68 H99C0344A	10/00/1999	9 MO F	Honolulu, HI	3-point (waist and crotch) with no restraint bar	Restraint does not hold child R	While secured in the stroller, the child flips forward and almost falls out. This has happened several times. No injury.
69 NEISS	10/13/1999	18 MO M	Unknown	Unknown	Not strapped in RN	Child fell from the stroller when the wheels got into a crack. Child was not strapped. Suffered a lip abrasion.
70 I99A0130	10/14/1999	7 MO M	Aloha, OR	Unknown	Restraints did not hold child in the seat R	Child went head over heels while still buckled in the stroller. The strap did not keep him from hitting the ground. His head dragged a couple of steps and was severely scraped from the top of his head to his forehead.
71 H99B0003A	10/27/1999	7 MO M	Cary, NC	3-point (waist and crotch)	Restraints did not hold child in the seat R	Child was secured in the stroller and was able to stand up with the straps fastened. He fell out of the stroller and was caught. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
72 000210HCC3157 73 C0019901A Sample #00-860-6012	11/01/1999 2 incidents	7 MO F	Honolulu, HI	3-point (waist and crotch) with no restraint bar	Restraint did not hold child in seat R	Child was secured in the stroller and complainant looked down and saw her suspended upside down in mid-air by the restraints. The child was put back into the seat and as soon as the complainant began pushing the stroller the child leaned forward from the seat and once again became suspended upside down as before. No injury.
74 H99B0157A	11/11/1999	10 MO M	Ashland, MA	Unknown	Wiggled out of restraint. R	The child was in the back seat of the stroller and wiggled out of the seat belt, falling to the floor. He hit the back of his head, but his injury was a lower abdominal hernia that may have been caused by the child struggling to get out of the belt or by falling, according to the doctor.
75 000824HAA3392 I99B0144A Sample # 00-860-6140	11/15/1999	11 MO M	Newark, CA	2-point (waist) and restraint bar with crotch strap	Wiggled out of restraint. R	Child was able to wiggle free of stroller safety restraint and was found hanging from the stroller over the side with one of foot caught in the restraint strap. No injury.
76 991203CCC0144 I99B0182A	11/22/1999	7 MO M	Miramar, FL	2-point (waist) & restraint bar with crotch strap	Slipped down with waist strap around neck S	Stroller was in a reclining position and child was strapped in by waist strap. Consumer loosened strap and child moved down in stroller. The waist strap became wrapped around the child's neck. He suffered a red welt on his neck.
77 000309HCC0485 H99C0028A No Sample	12/01/1999	9 MO F	California, MD	3-point (waist and crotch) and no restraint bar	Loosened restraints R	Child was trying to reach a bell on her shoe and loosened the restraints by moving and wiggling. She was about to fall out of the stroller when she was caught. The 3-point restraints connect together at a point below the child's waist and the straps are across her hips. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
78 010116HCC3142 10110122A	12/26/1999	6-19 MO M	Santa Barbara, CA	3-point (shoulder and crotch) with no restraint bar	Shoulders slipped out of harness R	Child was observed leaning forward in the jogging stroller. His shoulders slipped out of the two shoulder harness belts. No injury. Between ages 6 and 19 months this happened on numerous occasions. The child never fell out and was never injured. Each shoulder harness belt attaches to an 8 inch strap the allows the 2 harness belts to move up and down 6 inches.
79 10010034	12/30/1999	11 MO M	Brooklyn, NY	Unknown	Part of restraint broke B	Child leaned forward and one of the tabs that lock the straps into the clasp of the stroller seatbelt broke. No injury.
80 H0010168A	01/08/2000	16 MO M	Alexandria, VA	3-point (waist and crotch)	Restraints failed to hold child in seat R	Child was secured in stroller with brother and stood up on the footrest, beginning to fall forward. Consumer caught son. There is about 8 inches of space between the strap and sons' bodies even at the tightest position. No injury.
81 010104HAA0181 H0090292A	01/09/2000	8 MO M	Bronx, NY	5-point (waist, crotch and shoulder) and restraint bar with crotch strap	Able to disengage shoulder straps R	The restraining straps are anchored to the floor of the seat and extend from there over the child's shoulders. Child was secured in the restraints and slipped the straps off his shoulders and started to stand up. No injury.
82 H0040046A	02/00/2000	16 MO M	Clifton Park, NY	Unknown	Part of restraint broke B	Child was in stroller and consumer noticed the center piece which hold the stroller's seat belt in place broke off. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
83 000210HCC3156 H0020057A No Sample	02/02/2000	10 MO M	San Jose, CA	Unknown	Wiggled out of restraint. R	Child was in rear seat of double stroller, strapped in. Child wiggled out of restraint and climbed over the back of the front seat. He was uninjured. Consumer seat belts are designed to extend out from the bottom of the seat's back and they cover the upper thighs only. States that they do not come up high enough on the waist.
84 10040214A	03/00/2000	9.5 MO M	El Cerrito, CA	Unknown type of restraints with a restraint bar with no crotch strap	Unrestrained & submarined down S	Child was in the stroller unrestrained being pushed by the consumer. Consumer went down hill and child slipped down and was dragged under the stroller, hanging from the restraint bar. Unknown if injured.
85 00419HCC2458 86 10030225A No Sample	03/15/2000	9 MO M	Joliet, IL	3-point (waist and crotch) with no restraint bar & two center release latches	Restraint's latch unfastened RD	The restraint straps clip into a center strap and latch with release mechanism (two center release "buttons"). The child was secured in the stroller and leaned forward and the latch released. The child fell head first to the floor, sustaining a bump to his forehead. A similar situation happened two weeks earlier, but the child did not fall completely to the floor because his leg was entangled in the restraining strap.
87 000421HCC0594 H0040043A Sample #00-800-2658	03/23/2000	6 MO F	Brookhaven, PA	3-point (waist and crotch) with two center release latches and a restraint bar	Restraints unfastened RD	Child was in a reclined position in her stroller and the restraints prematurely unfastened. This was not the first occurrence, each time either the right or left side of the restraint would pop open. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
99 H0060348A	06/27/2000	8 MO F	Virginia Beach, VA	2-point (waist)	Restraint did not hold child in seat R	Child was in the back seat of a double stroller and fell out of the left side, dangling by her feet. The waist strap had been secured around her waist and when she fell caught her ankles. The waist belt is sewn into the bottom of the seat which, the consumer feels, allows the child to become easily disengaged from the belt. She says the belt should be attached to the back of the seat. No injury.
100 000721HCC0852 H0070157A No Sample	07/00/2000	19 MO M	Ithaca, NY	3-point (waist and crotch) with restraint bar and buckle with two center releases	Restraint strap fastener came off B	Child was in stroller and consumer saw son try to stand up. Consumer found a plastic had come off the waist strap. The other side was ready to come off, too. The two plastic fasteners were not sewn to the nylon waist straps. No injury.
101 000927HAA0082 H0090222A Sample #01-810-3651	07/00/2000	15 MO F	Pittsford, NY	5-point (waist, crotch and shoulder) with no restraint bar	Wiggled out of restraint. R	While in the jogging stroller the child was able to squirm out of the restraints and put her hands in the wheel spokes. There is no way to adjust the restraints according to the complainant and the piece that comes across the chest moves up and down, allowing the child to get her arms out of the restraints. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
107 000901HAA2795 H080306A Sample #00-830-3852	08/25/2000	6 MO F	Livonia, MI	2-point (waist) with crotch strap on the restraint bar	Slid down in stroller S	Child was restrained by the waist strap in her stroller and slid down in the seat to the point where the belt was under her arms and her legs were through one leg hole. No injury. Manufacturer's representative referred consumer to the owner's manual which said that the crotch strap could be removed from the restraint bar and used with the waist strap. When the consumer did that and her child squirmed, her body tilted to one side and the base of the seat where the crotch strap is attached began to lift away from the stroller.
108 H00C0084A	09/00/2000	15 MO F	Bronx, NY	3-point (waist and crotch)	Stitching detached on restraint D	Child was secured in the stroller and leaned forward, falling to the ground. The stitching on the restraint belt had detached at the rear of the stroller. The child had a cut to chin and bleeding mouth.
109 H00B0341A	09/00/2000	15 MO F	Downingtown, PA	Unknown	Crotch strap became unsewn B	Child was seated in the jogging stroller when the crotch strap's stitching came undone. No injury.
110 001011HAA2022 H00A0079A No Sample	09/29/2000	8 MO F	Shauburg, IL	3-point (waist and crotch) with tray	Freed self from harness R	Child was secured in the stroller when she fell headfirst from a standing position. The harness was still fastened. Consumer believes the child pulled her legs out from the straps and stood up. Consumer thought the harness should fit the child higher up on the waist. No injury.
111 H00A0253A	10/20/2000	14 MO M	Huntington Beach, CA	2-point (waist)	Slipped down S	Child was strapped in the stroller by the waist belt and turned sideways, starting to slip through the leg openings before caught. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
88 001130HAA2116 H00B0287A No Sample	4/2000- 5/2000	2 YR M	Crown Point, IN	3-point (waist and crotch) with push button release buckle and no restraint bar	Able to operate buckle U	Consumer noticed that the child was able to operate the push button latch release of the stroller's harness. The child did not escape from the stroller and there was no injury involved.
89 000503HCC2512 H0040248A No Sample	04/12/2000	15 MO F	Houston, TX	5-point (waist, crotch and shoulder)	Wiggled out of restraint. R	Was in jogging stroller and freed herself from the shoulder harness by turning on shoulder and wiggling out. She tumbled out of the front of the stroller on to surface below. No serious injury occurred. All the straps of the restraints form a U-shape at the waist. The opening in the middle of the U is wide enough for the child's entire body to wiggle through.
90 NEISS	04/16/2000	3 MO M	Unknown	Unknown	Not strapped in RN	Sibling was pushing child in a stroller without seat belt. Child fell out, confusing nose.
91 000524HCC0689 I0050042A No Sample	04/30/2000	7 MO F	Cambridge, MA	3-point (waist and crotch) with restraint bar	Crotch strap detached D	The plastic clip that attached the crotch strap to the stroller separated from it. There is a slot in the stroller which the clip holds the crotch strap and it appears that the clip can slip through the slot by moving the strap. No injury.
92 H0050320A	05/00/2000	4 MO F	Mount Sinai, NY	2-point (waist)	Slipped down S	Children were in the stroller and they slipped underneath the stroller's waist straps. They were hanging by their armpits. The seats were in a semi-upright position with both footrests positioned in the highest setting. No injury, but Mother felt her daughters could have strangled.

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93 000523HCC2565 H0050008A No Sample	05/01/2000	8 MO F	Kenner, LA	3-point (waist and crotch) with center release buckle	Restraints disengaged RD	Child leaned forward while secured in the stroller and fell out, bruising the back of her head. The restraints' latching mechanism had come loose. The consumer thought that maybe the child's stomach pressed against the single button that releases the restraints.
94 H0050121A	05/07/2000	9 MO M	Taylor Mill, KY	2-point (waist)	Slipped down S	Child was secured in stroller, slipped up to his armpits in the waist strap and got his body caught in one leg opening. No injury.
95 000710CEP9010 NEISS	05/19/2000	2 YR F	Oakland, CA	Diaper-like seat belt (3-point?)	Unbuckled restraints U	Child was in stroller and managed to unbuckle the seat belt restraint system and fell out. She suffered a cut lip, scraped nose and cheek, and had a large bump on her forehead as a result of hitting the sidewalk.
96 000606CAA0724 10060009A	05/25/2000	7 MO F	Upper Montclair, NJ	3-point (shoulder and crotch) with no restraint bar	Slipped down in stroller S	Child in the jogging stroller with the straps tightened to the maximum. During a walk the child slid down in the seat causing the straps to rub the side of her face. No injury.
97 000711CEP9007 NEISS	05/27/2000	20 MO F	Staten Island, NY	Unknown	Belted in and fell out R	Child was in double stroller with sister and was belted in, but when she tried to stand up she fell out and hit her head on the floor. She suffered a bump on her head.
98 000719HAA2682 10070178A No Sample	06/01/2000	8 MO F	Chicago, IL	3-point (waist and crotch) and no restraint bar	Restraints separated from seat D	The child was secured in the stroller and was leaning forward and back in the stroller, playing. She leaned forward and the restraint system broke away from the stroller at the back. The child fell facefirst to the ground, bruising her face and head. Father said the restraint belt had not been sewn to the seat, it appeared to have been glued.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
112 NEISS	12/09/2000	5 MO M	Unknown	Unknown	Safety belt broke B	Child fell out of the stroller when the safety belt broke. Fell down 3 steps and suffered a closed head injury.
113 001220HEP9004 NEISS No Sample	12/12/2000	13 MO F	Graham, NC	Unknown	Strap caught around neck O	At day care and was strapped into stroller first in front seat. Restraint straps came across both shoulders of the victim. She was sleeping and propped up with a blanket. She fell forward and the shoulder straps came up and caught her around the neck, strangling her. (Father found later that on inspection one side of the buckle on the shoulder strap was broken, but its not stated if this contributed to the incident.) The child was found unconscious from momentary lack of oxygen and taken to ER. Released from hospital the following day.
114 100C0393	12/29/2000	7.5 MO F	Santa Clara, CA	Unknown	Fell out of stroller R	Child was strapped in the stroller and fell out. She landed on her head (unknown if injured). The belt doesn't offer enough restraint in the consumer's opinion.
115 H0110151A	01/08/2001	19 MO M	Centereach, NY	Unknown	Buckle cracked B	Child was in stroller and bent over, causing the restraint's plastic buckle to crack in the middle. He fell to the ground, suffering a laceration and bump to his head.
116 010131HCC0267 H011269A No Sample	01/11/2001	14 MO M	Lynchburg, VA	3-point (waist and crotch)	Stood up and out of restraints R	Child was strapped in the stroller and was wiggling around, stood up and out of the restraints. He then fell through the area between the seat and foot rest, entrapping his head. He was rescued by the consumer and her sister. No injury.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
102 000907HAA0014 103 H0090032A 104 Sample #00-800-2347	08/00/2000 09/02/2000 00/00/00	8-9 MO M & 2 YR M 3 incidents	Gainesville, FL	2-point (waist) and restraint bar with crotch strap	Wiggled out of restraint. R	Child was buckled into his stroller and leaned over the side, wiggling out of the seat of the stroller. He was caught before he fell out. No injury. About a month later, he was again buckled in the stroller and mother saw him with his head pointing to the street, leaning over the side. He had managed to wiggle out of the restraint belt. No injury. Also, used with respondent's first child, who had also almost wiggled out of the secured restraint, leaning over the side. She was able to catch him before he fell.
105 000818HCC2759 H0080170A No Sample	08/16/2000	4 MO M	Friendswood, TX	2-point (waist) with crotch strap on the restraint bar	Slipped down in stroller S	Child was secured in the stroller in a reclining position. He began to kick and squirm his way through one of the leg openings, causing the waist restraint to slide under his arms. No injury.
106 000901HAA0001 H0080345A Sample #00-800-2666	08/16/2000	8 MO M	Lower Gwynedd, PA	3-point (waist and crotch) with 2 center release buckles and restraint bar	Restraints popped open RD	Child was securely fastened in the stroller and began wiggling. While leaning forward the restraints opened and the child fell from the stroller. He suffered facial lacerations, a black eye and a knot on his forehead.

Document #	Date	Age/Sex	City/State	Type Restraint	Type Hazard Scenario	Narrative
117 010220HCC2250 H0120096A No Sample	01/31/2001	8 MO M	Mount Prospect, IL	3-point (waist and crotch) with no restraint bar and side release buckle	Buckle disengaged RD	Child was secured in stroller and apparently leaned forward against the restraint, causing the buckle to release. The child fell to the floor striking his forehead, suffering a bump. Consumer and husband found that even with the buckle correctly fastened that pressure would cause it to release repeatedly.
Total=117						